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THE UNITED STATES OF AMERICA

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

November 19, 2003

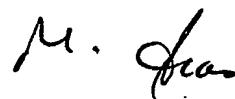
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THE RECORDS OF THE UNITED STATES PATENT AND TRADEMARK
OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT
APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE.

APPLICATION NUMBER: 60/411,368

FILING DATE: September 18, 2002

RELATED PCT APPLICATION NUMBER: PCT/US03/29648

By Authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS



M. SIAS
Certifying Officer

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60411368 091802

Revised PTO/SB/16 (8-00)

Approved for use through 10/31/2002 OMB 0651-0032

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Attorney Docket No. 36871-181827

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET
This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (c).

09/18/02
U.S. PTO

60411368
PTO

INVENTOR(S)		
Given Name (first and middle [if any]) Ron	Family Name or Surname Halliburton	Residence (City and either State or Foreign Country) Delray Beach, Florida
<input type="checkbox"/> Additional Inventors are being named on the _____ separately numbered sheets attached hereto		

TITLE OF THE INVENTION (280 characters max)

IMPROVEMENT FOR CRANE GAME

Direct all correspondence to

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26694

OR

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Individual Name

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State

DC

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Country

U.S.A

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ENCLOSED APPLICATION PARTS (check all that apply)

Specification Number of Pages

20

CD(s), Number

Drawing(s) Number of Sheets

Other (specify)

Application Data Sheet. See 37 CFR 1.76

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)

Applicant claims small entity status. See 37 CFR 1.27.

A check or money order is enclosed to cover the filing fees

FILING FEE
AMOUNT (\$)

The Commissioner is hereby authorized to charge filing
fees or credit any overpayment to Deposit Account Number:

22-0261

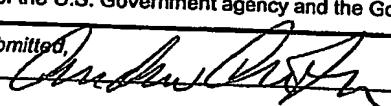
✓ 80.00

Payment by credit card. Form PTO-2038 is attached.

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

No.

Yes, the name of the U.S. Government agency and the Government contract number are: _____

Respectfully submitted,
SIGNATURE 

Date

09/18/02

TYPED or PRINTED NAME Andrew C. Aitken

REGISTRATION NO.
(if appropriate)

36,729

TELEPHONE 202-962-4800-

Docket Number:

36871-181827

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51 and is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231

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1604-11368 - 0001802
PTO/SB/17 (10-01)Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

A/PR

User name is not in the listed

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision

J-1059 U.S. PTO
20/01/00

TOTAL AMOUNT OF PAYMENT (\$ 80

Complete If Known	
Application Number	To Be Assigned
Filing Date	July 23, 2002
First Named Inventor	Ron Halliburton
Examiner Name	
Group / Art Unit	
Attorney Docket No	36871-181827

METHOD OF PAYMENT (check one)				FEE CALCULATION (continued)																																																																																																																																																													
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to. Deposit Account Number 22-1281. Deposit Account Name VENABLE <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input checked="" type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27				3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td></tr> <tr><td>141</td><td>1,280</td><td>241</td><td>640</td><td>Petition to revive - unintentional</td></tr> <tr><td>142</td><td>1,280</td><td>242</td><td>640</td><td>Utility Issue fee (or reissue)</td></tr> <tr><td>143</td><td>460</td><td>243</td><td>230</td><td>Design Issue fee</td></tr> <tr><td>144</td><td>620</td><td>244</td><td>310</td><td>Plant Issue fee</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17 (q)</td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td></tr> <tr><td>581</td><td>40</td><td>681</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td></tr> <tr><td>146</td><td>740</td><td>246</td><td>370</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td></tr> <tr><td>149</td><td>740</td><td>249</td><td>370</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td></tr> <tr><td>179</td><td>740</td><td>279</td><td>370</td><td>Request for Continued Examination (RCE)</td></tr> <tr><td>169</td><td>800</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td></tr> <tr><td colspan="4">Other fee (specify)</td></tr> <tr> <td colspan="4">*Reduced by Basic Filing Fee Paid</td> <td>SUBTOTAL (3) (\$ 0</td> </tr> </tbody> </table>				Large Entity Fee Code (\$)	Fee Description	Small Entity Fee Code (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - 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** or number previously paid, if greater. For Reissues, see above

SUBMITTED BY		Complete (if applicable)		
Name (Print/Type)	Andrew C. Aitken	Registration No.	Attorney/Agent)	36,729 Telephone 202-662-4800
Signature		5:10	Date	September 18, 2002

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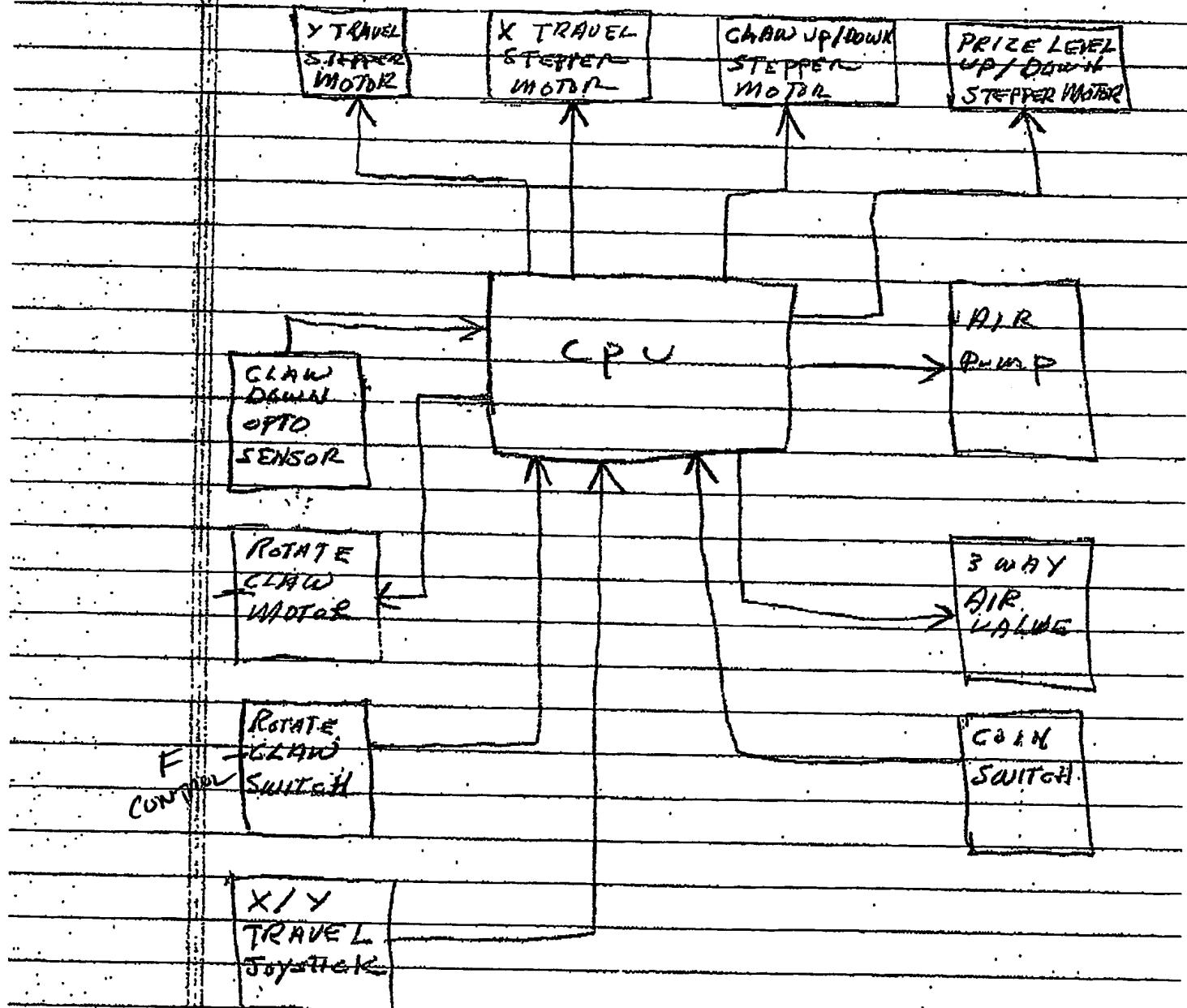
STANDARD CRANE VERSUS NEW FEATURES

- (1) AIR CYLINDER REPLACES HIGH CURRENT COLENOID THAT DONT HAVE LINEAR POWER CURVE.
- (2) AIR CYLINDER WILL NOT HEAT UP LIKE A SOLENOID DOSE THAT CHANGES THE POWER CURVE DEPENDING ON TEMP.
- (3) CLAW UP/DOWN STEPPER MOTOR CAN DETECT LEVEL OF PRIZES TO INSTRUCT WHEN TO RAISE LEVEL OF PRIZES TO KEEP GAME AT A FULL LEVEL TO INVITE MORE PLAY.
4. WITH AIR DRIVEN CLAW THERE IS NO COLENOID POWER WIRE CONNECTED TO SIDE OF CLAW BY HAVING A SINGLE AIRLINE CONNECTED TO CENTER OF CLAW ASSY WE ROTATE CLAW UP TO 60 DEGREES GIVING PLAYER MORE INTERACTION.
- (5.) UNTIL NOW A CRANES HAS X/Y/Z/TRAVEL WE NOW HAVE X/Y/Z AND ROTATE.
- (6.) A AIR CYLINDER HAS GIVEN TORQUE THROUGHT OUT FULL TRAVEL.

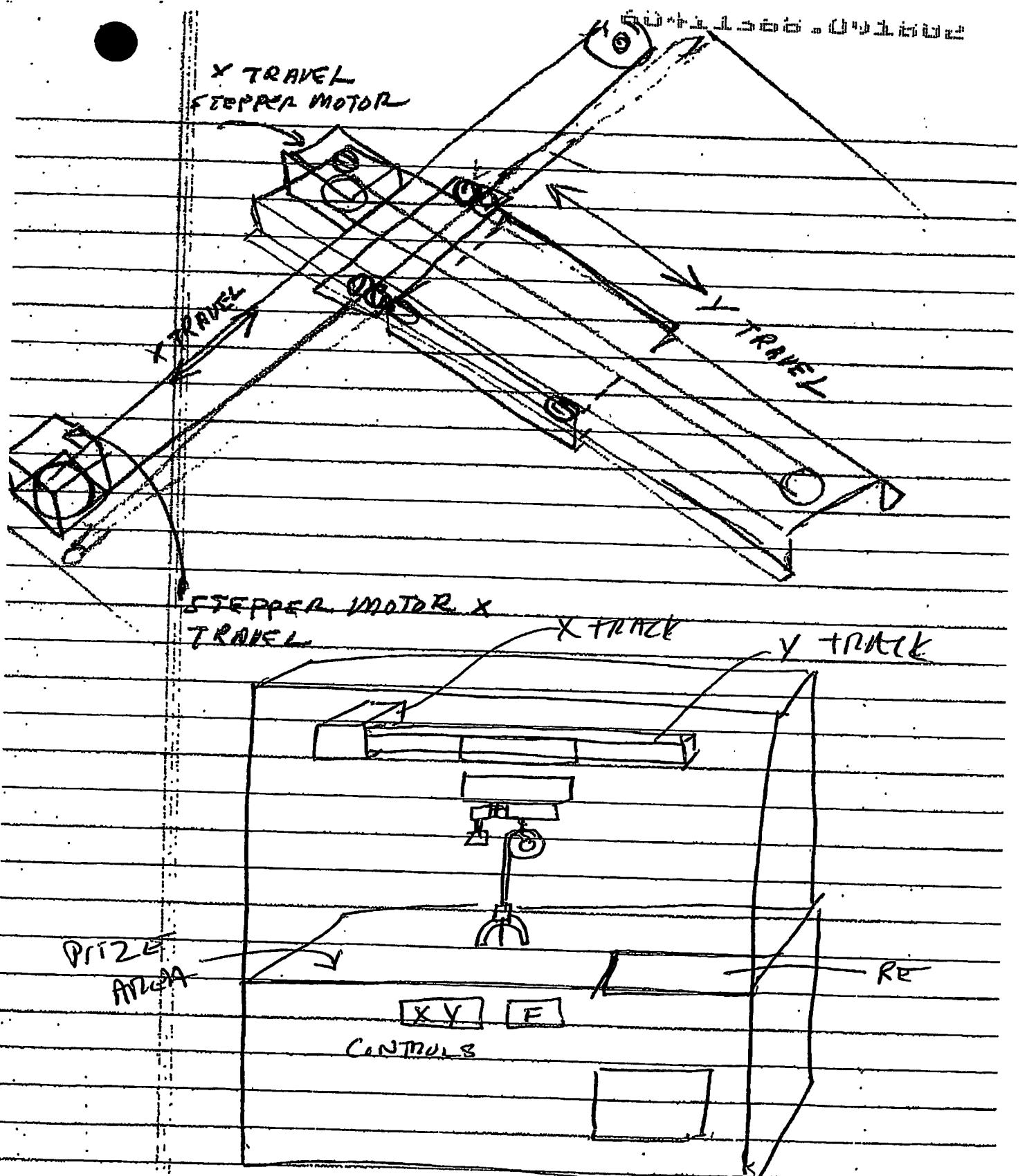
STEPPER MOTORS V/S DC MOTORS

- (1) WITH D.C. MOTORS DRIVING X/Y/Z TRAVEL THEY NEED A END OF TRAVEL SWITCH AT EACH END. 6 SWITCHES IN TOTAL WITH STEPPER MOTORS NO SWITCHES ARE NEEDED.
- (2) IF THERE IS A MECHANICAL POSITION THAT LIMITS TRAVEL OF DC MOTOR WHILE DRIVEN OUT IN A STALL POSITION, IF A STEPPER MOTOR IS STALLED IT WILL JUST SLIP.

(2) 920

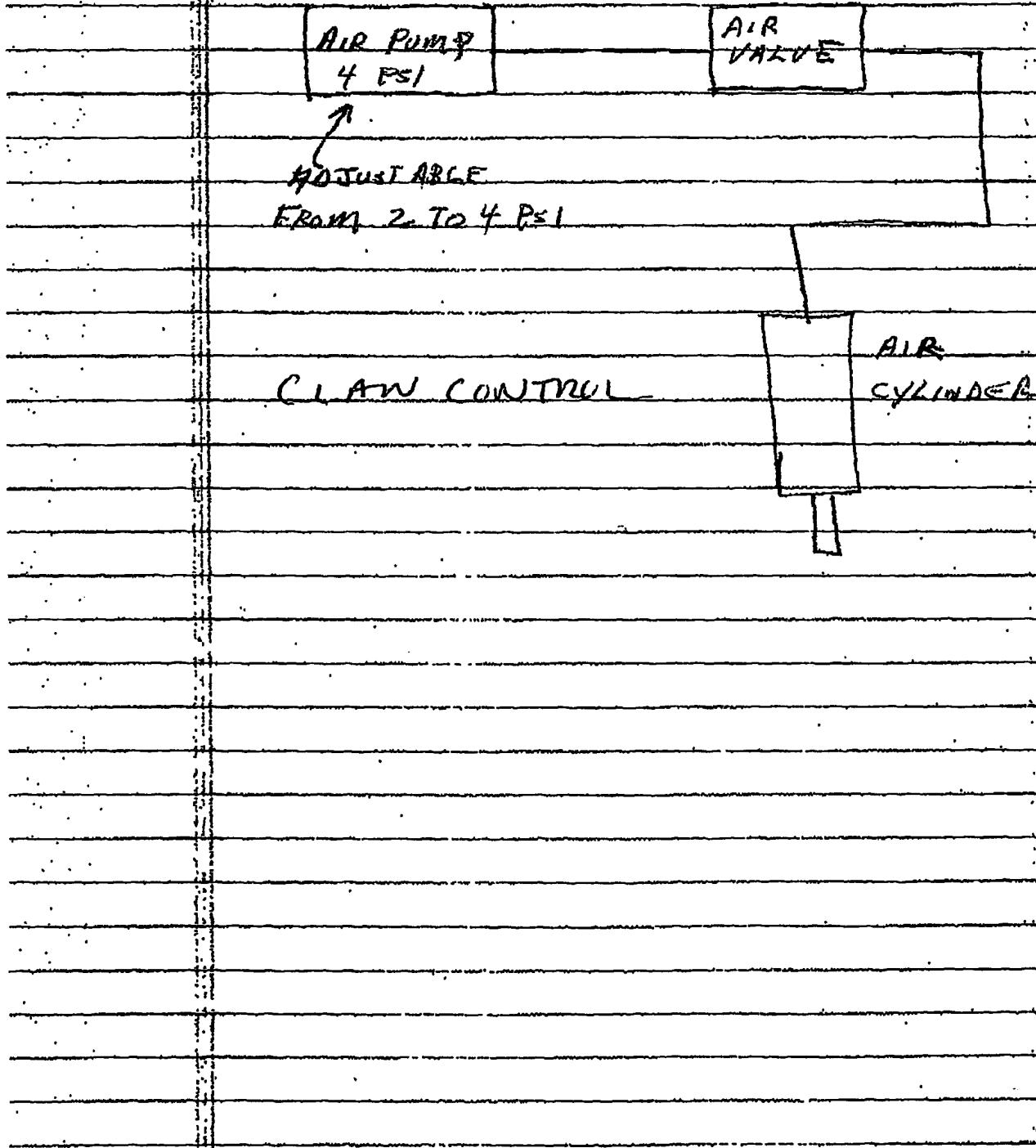


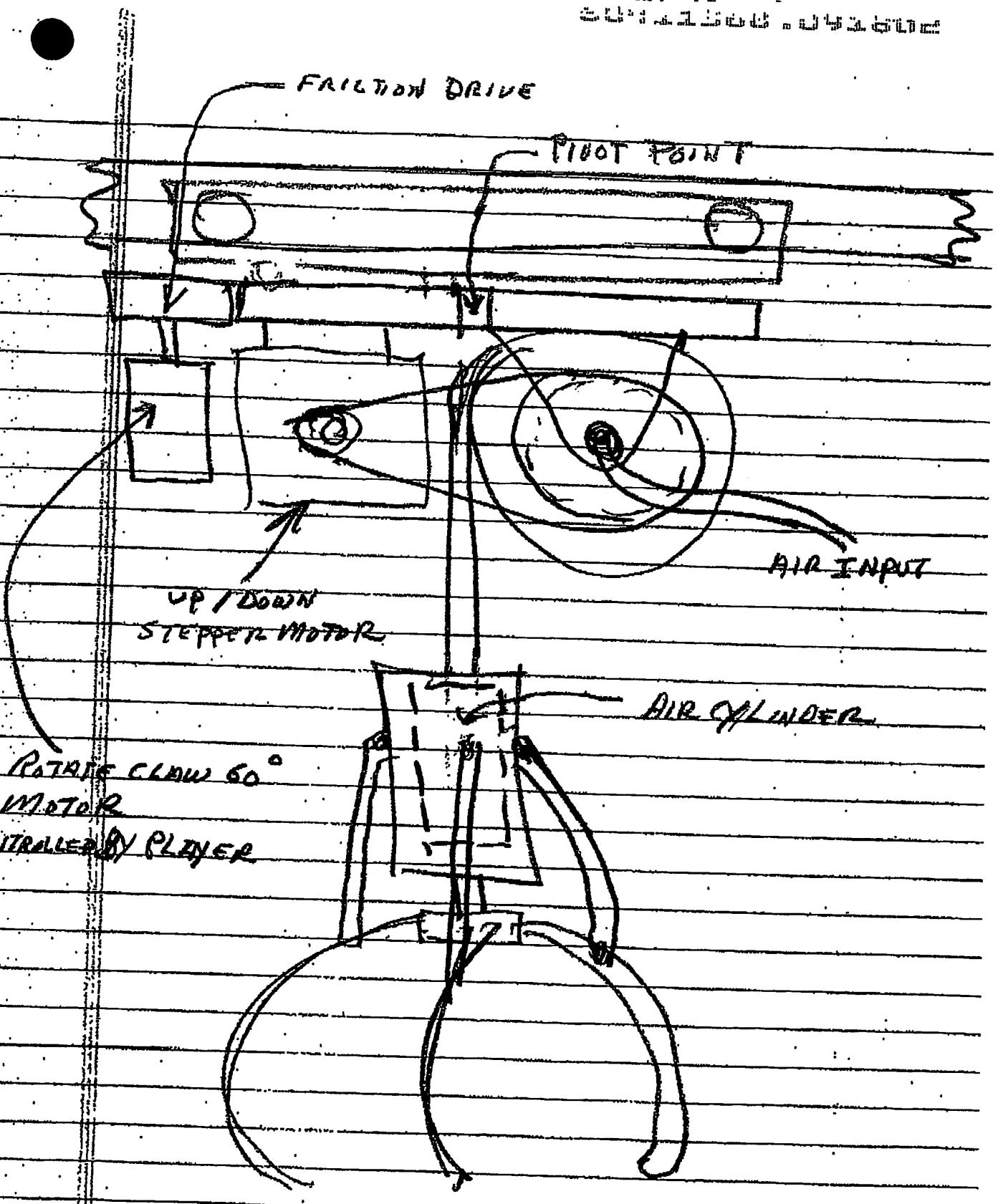
(3) 420



F CONTROL ALLOWS CRANE CLAW TO
ROTATE. -

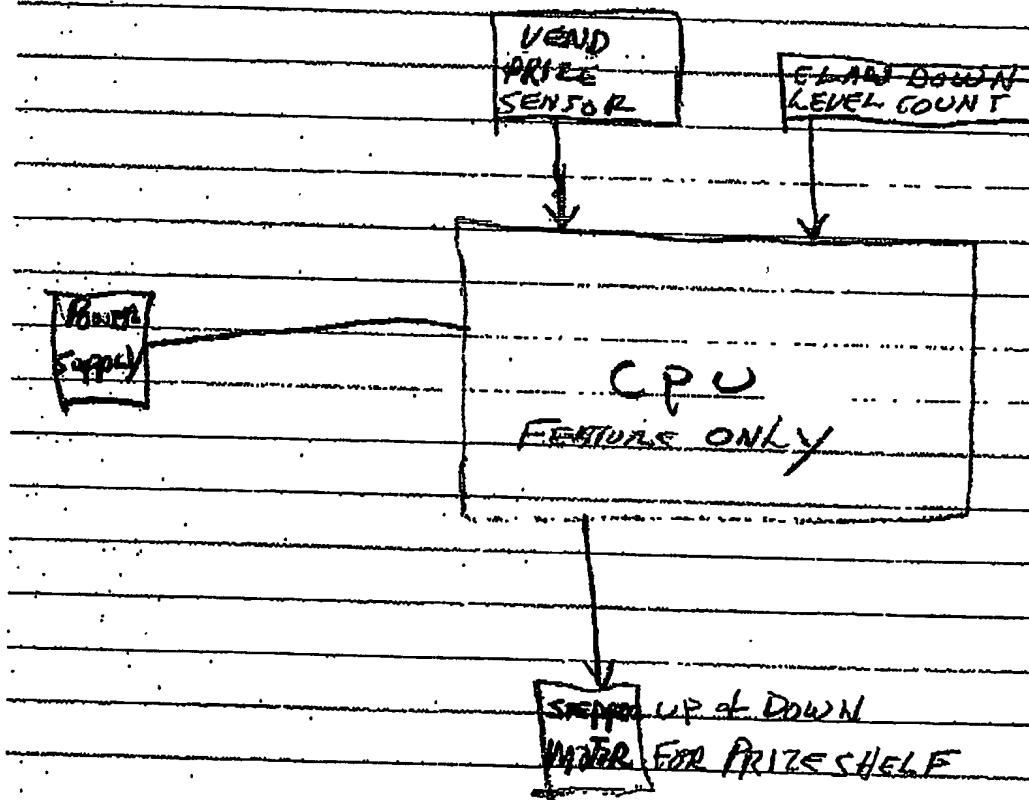
(4) q 20





CRANE FEATURE
TO KEEP PRIZE LEVEL FULL AND
RELOADS 50% LESS.

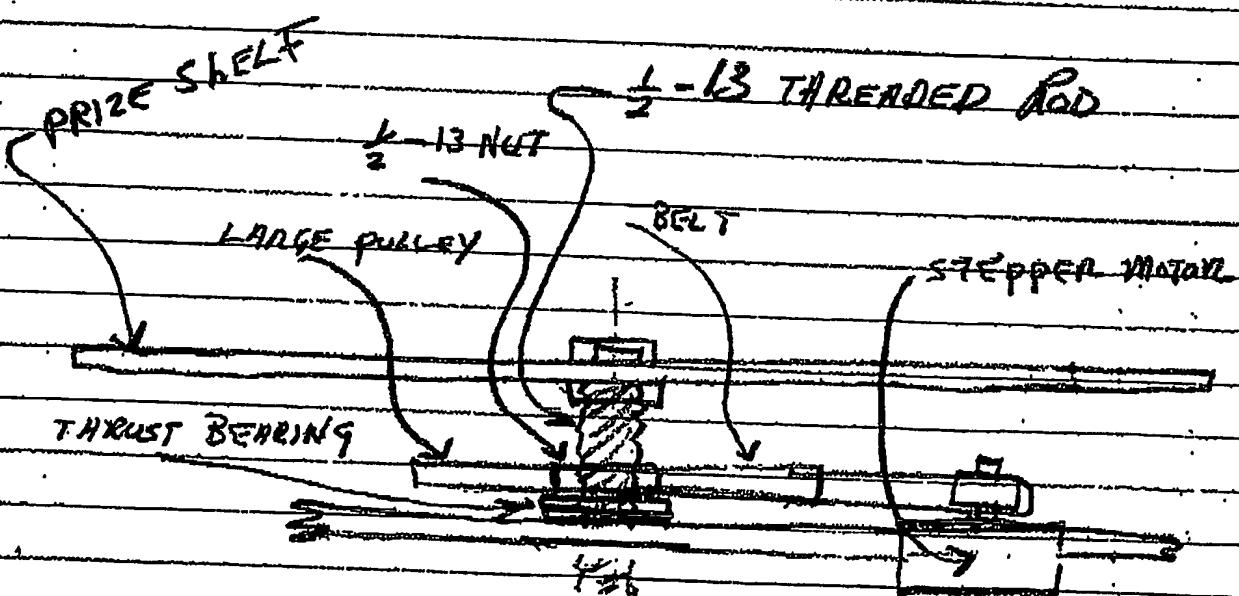
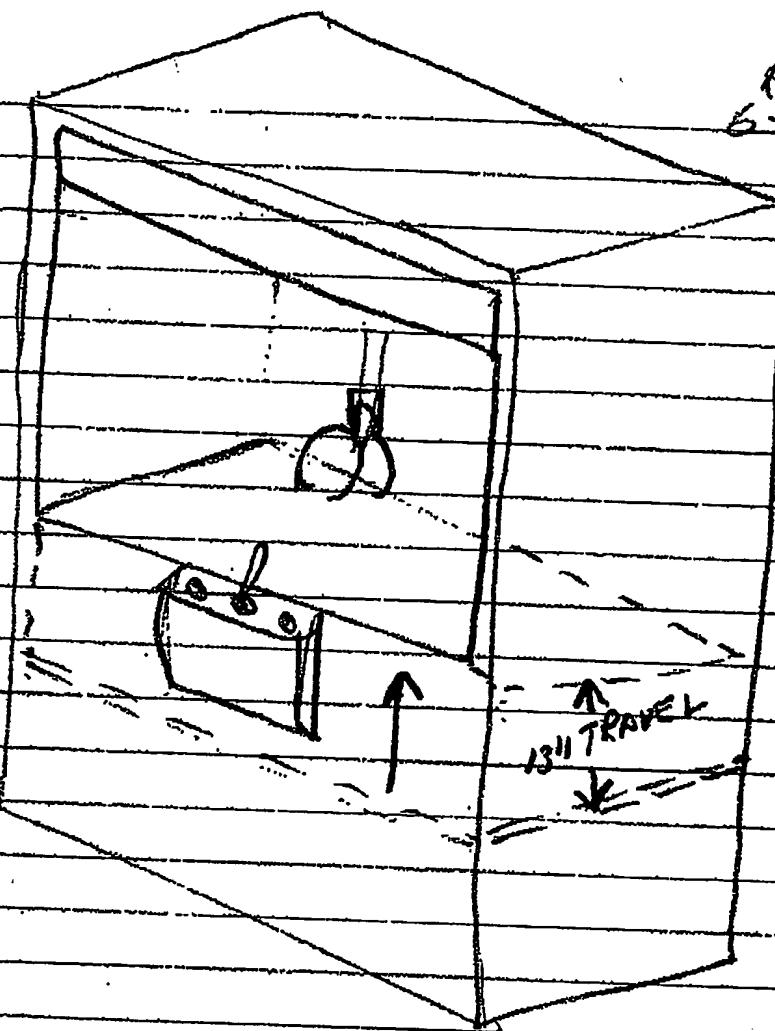
- (1) THE STEPPER MOTOR WILL RAISE THE PRIZE SHELF WHEN PRIZE VEND COUNT TABLE IS REACHED OR HOW FAR THE CLAW CAN BE LOWERED. THE RATE OF CLIMB FOR PRIZE SHELF IS VERY SLOW ABOUT 1" PER HOUR. MAXIMUM SPEED. RESET SPEED WILL BE NORMAL.



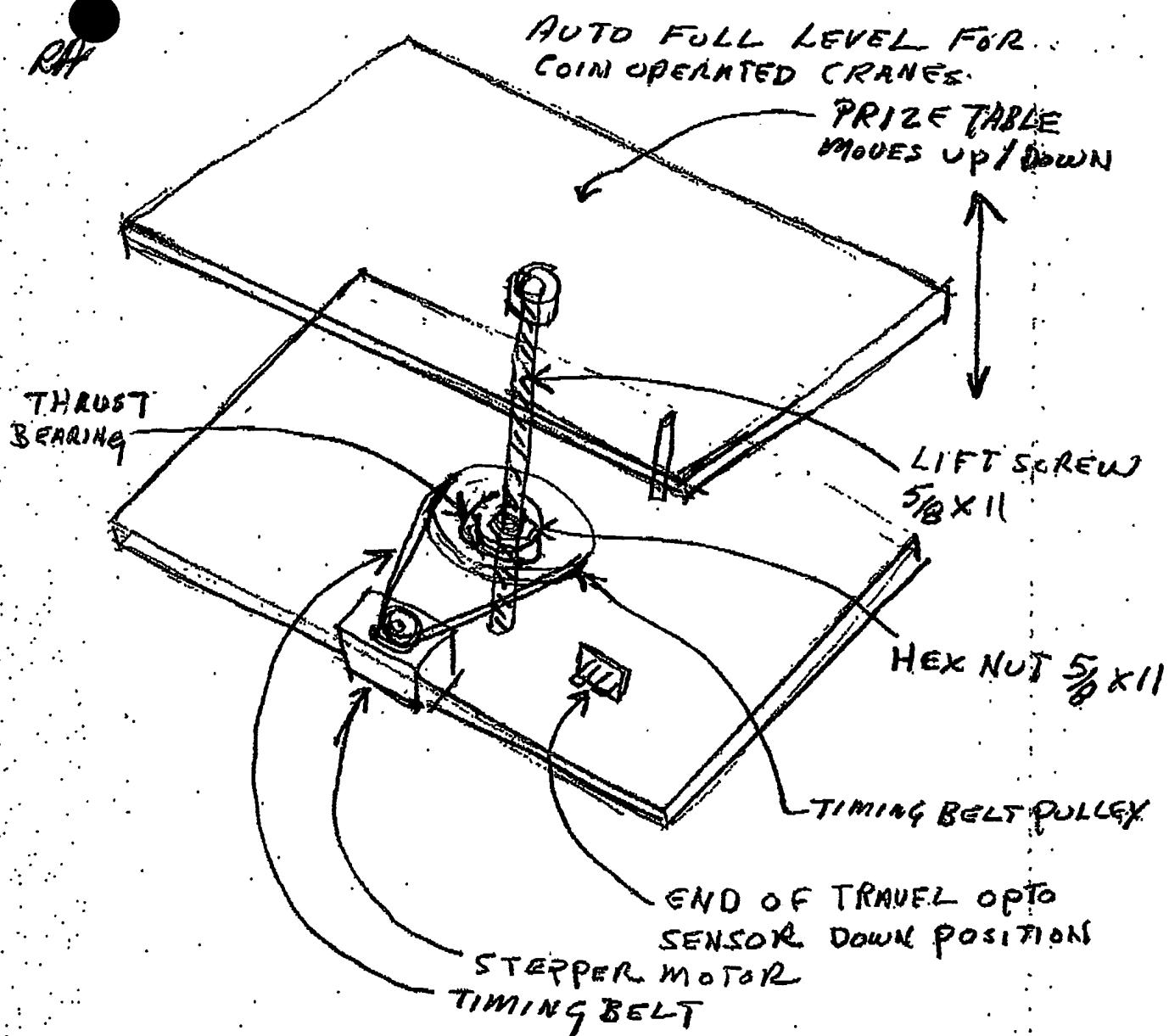
Ron Halliburton
6-10-02

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Ron HALLIBURTON
6-10-02



R&H

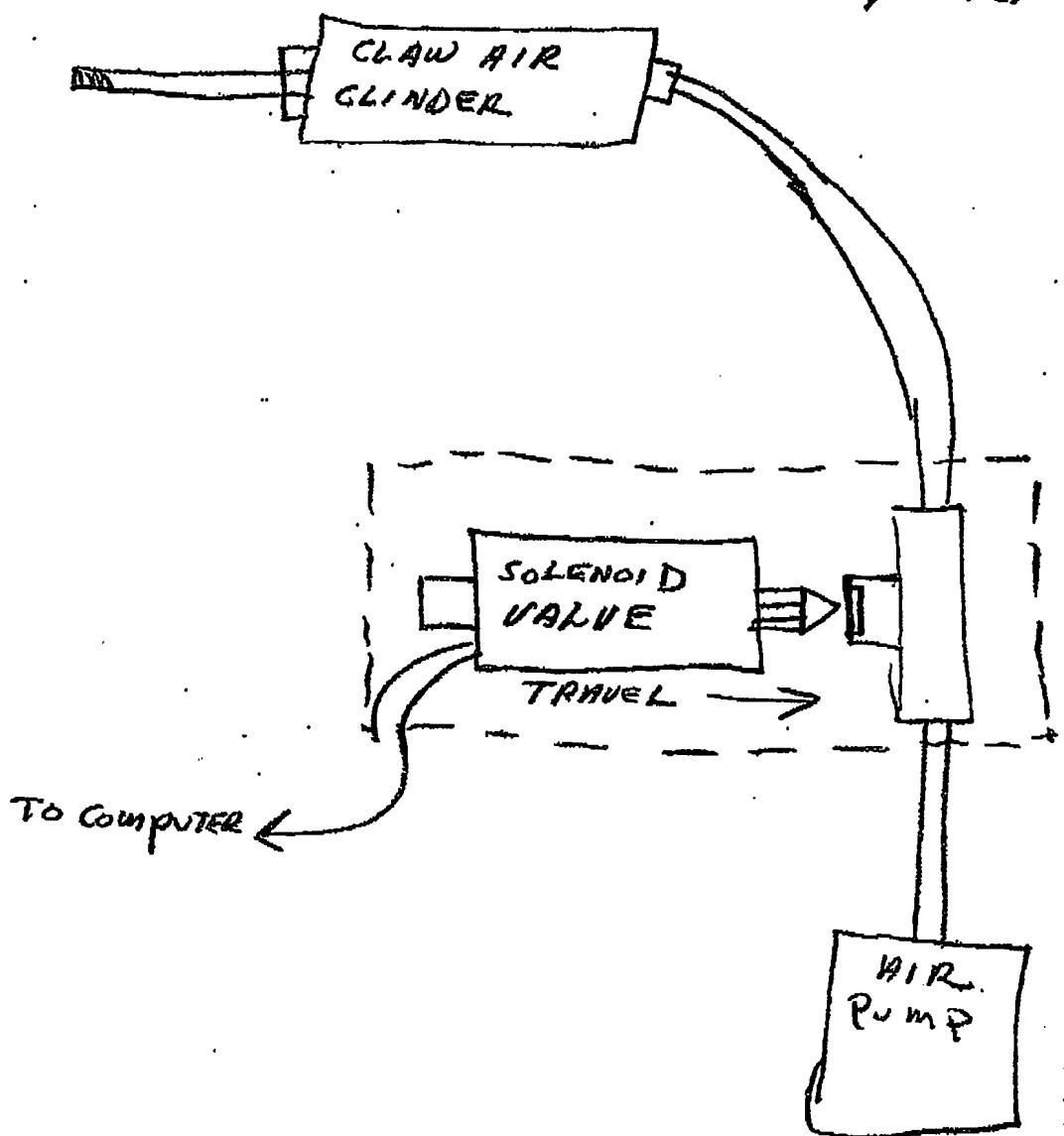


WHEN CRANE IS LOADED THE PRIZE TABLE IS RESET TO DOWN POSITION. AS GAMES ARE PLAYED THE TRAVEL OF THE CLAW IS LOGGED. WITH EACH PLAY WHERE A AVG. PRIZE LEVEL CAN BE DETERMINED. THIS ALLOWS FOR A INTELLIGENT WAY OF KEEPING PRIZE LEVEL NEAR FULL FOR MAXIMUM PLAY APPEAR. ALSO DOUBLE AMOUNT OF PRODUCT CAN BE LOADED EACH TIME LIMITING THE AMOUNT OF SERVICE CALLS.

9-12-02

(9) of 20

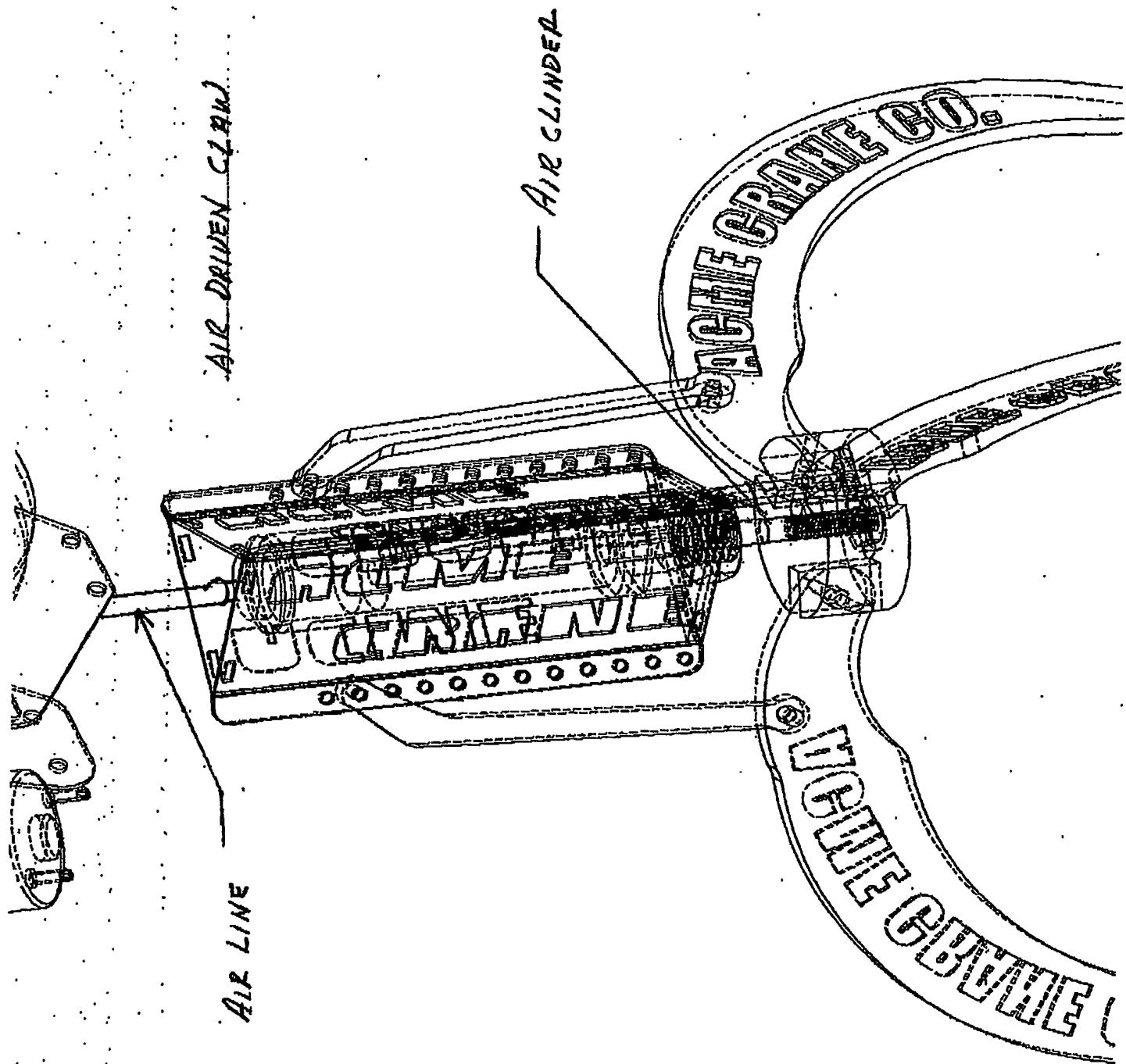
CRANE CLAW USING AIR CYLINDER



WHEN SOLENOID IS ENERGIZED AIR PRESSURE BUILDS
TO ACTIVATE AIR CYLINDER WHEN SOLENOID IS RELEASED
AIR PRESSURE IS RELEASED ALLOWING AIR CYLINDER
TO RETURN.

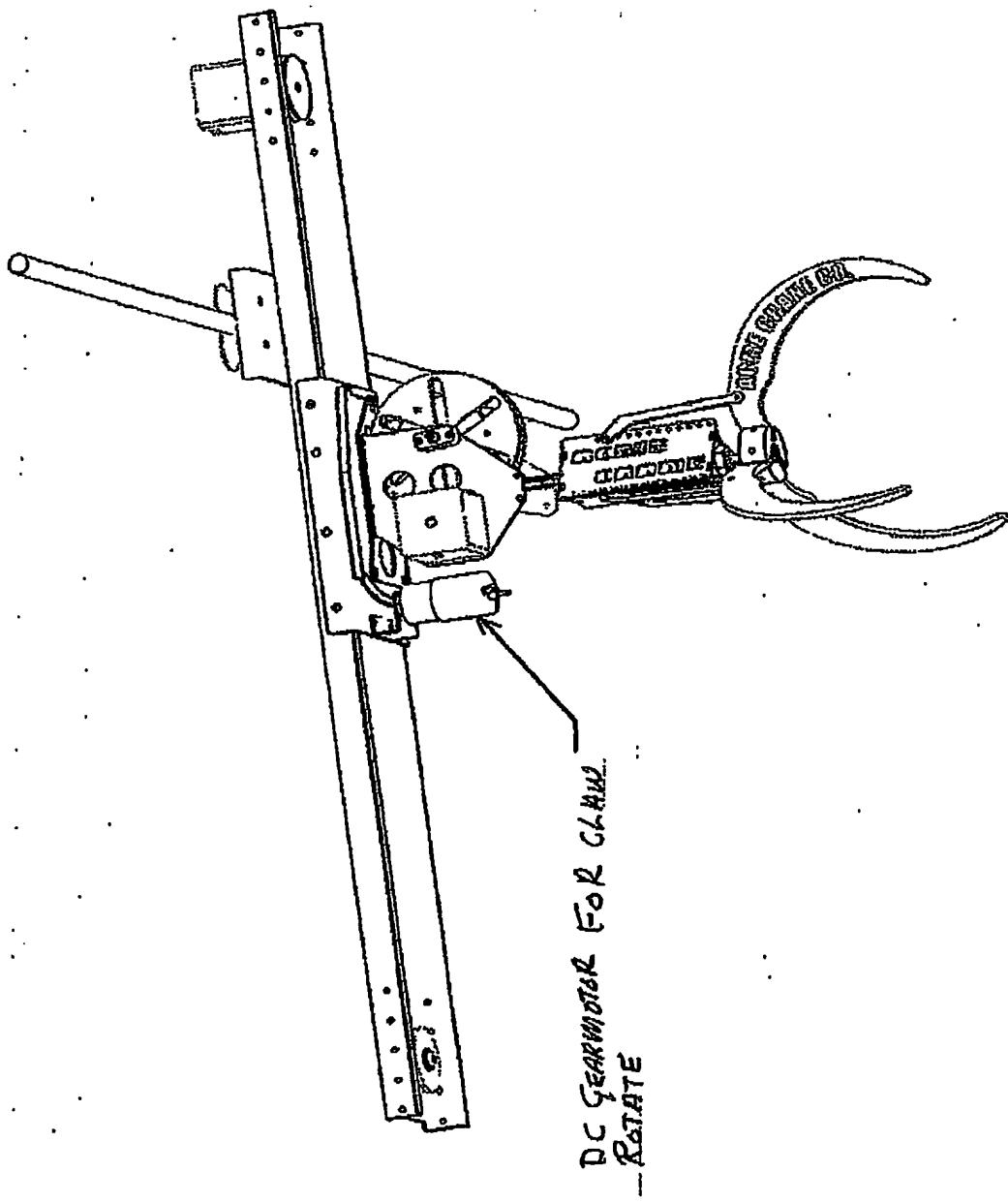
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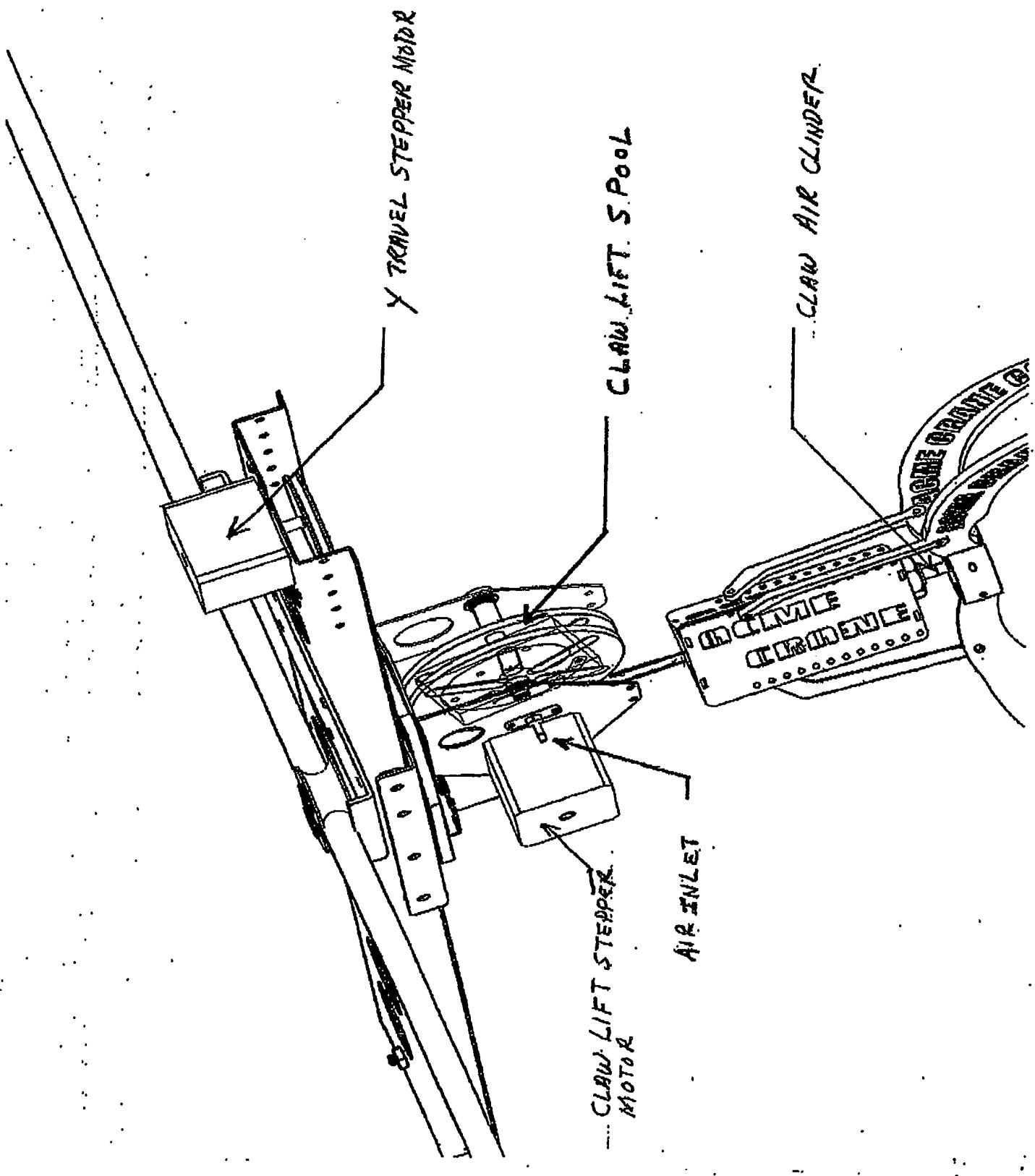
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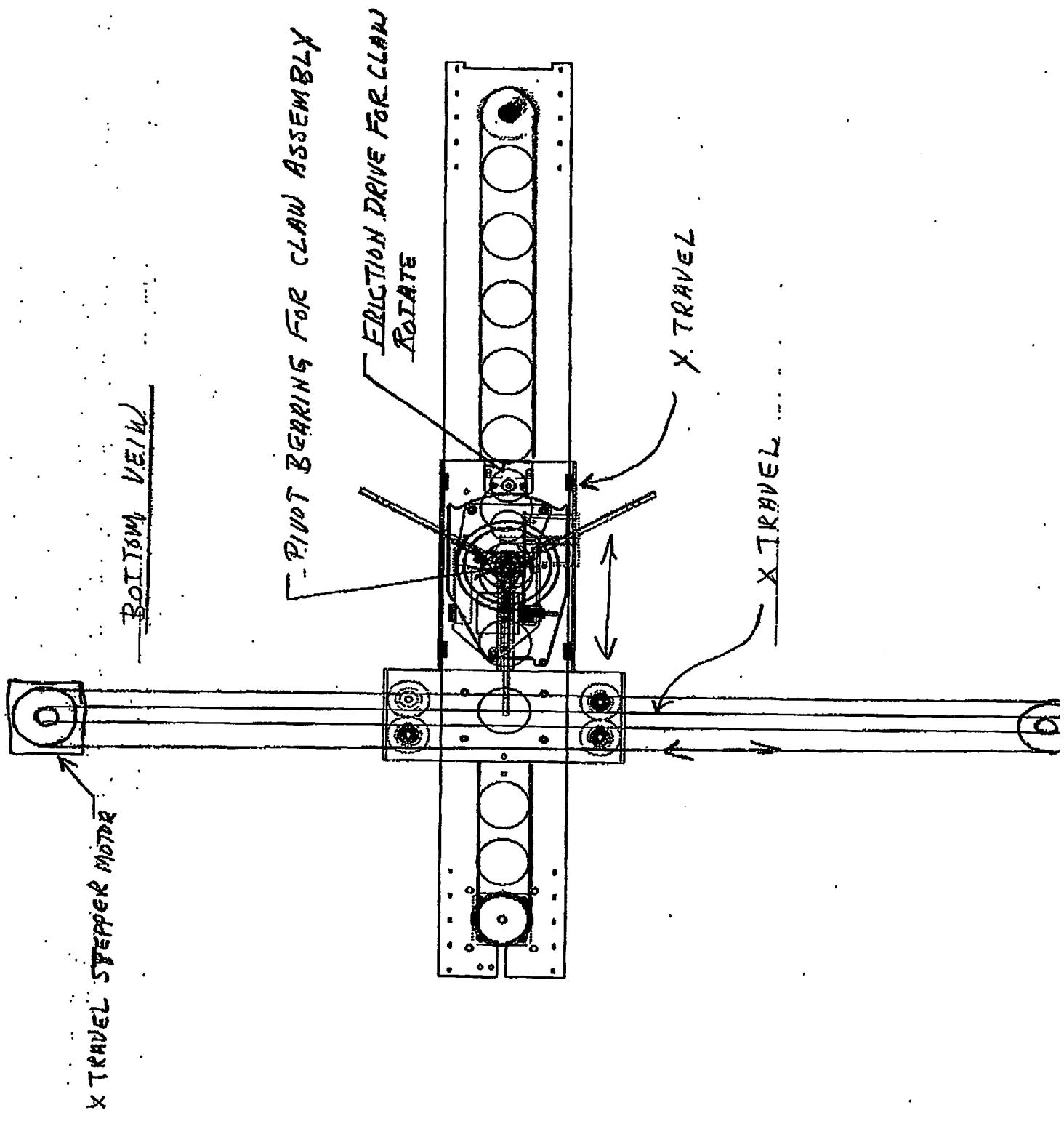
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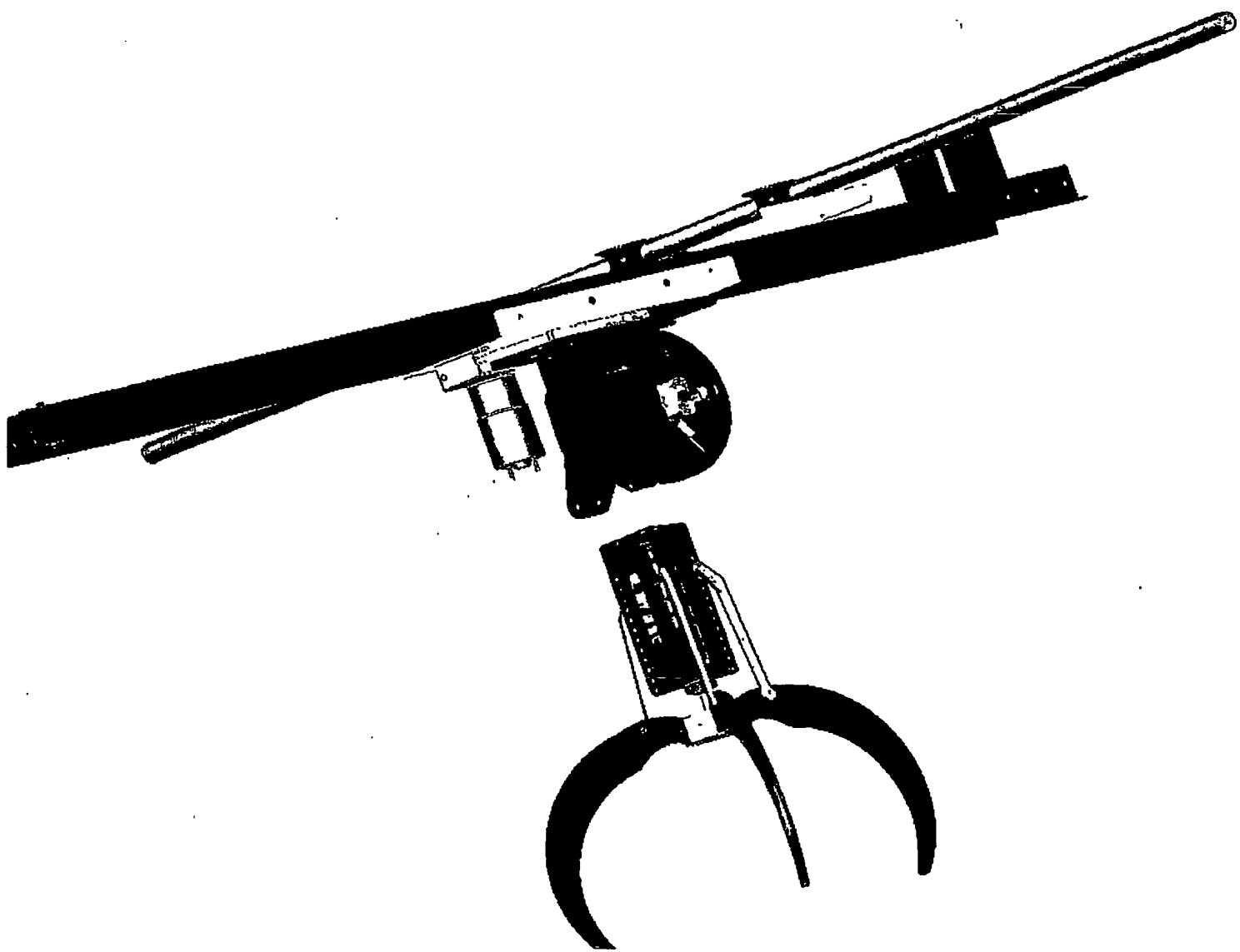


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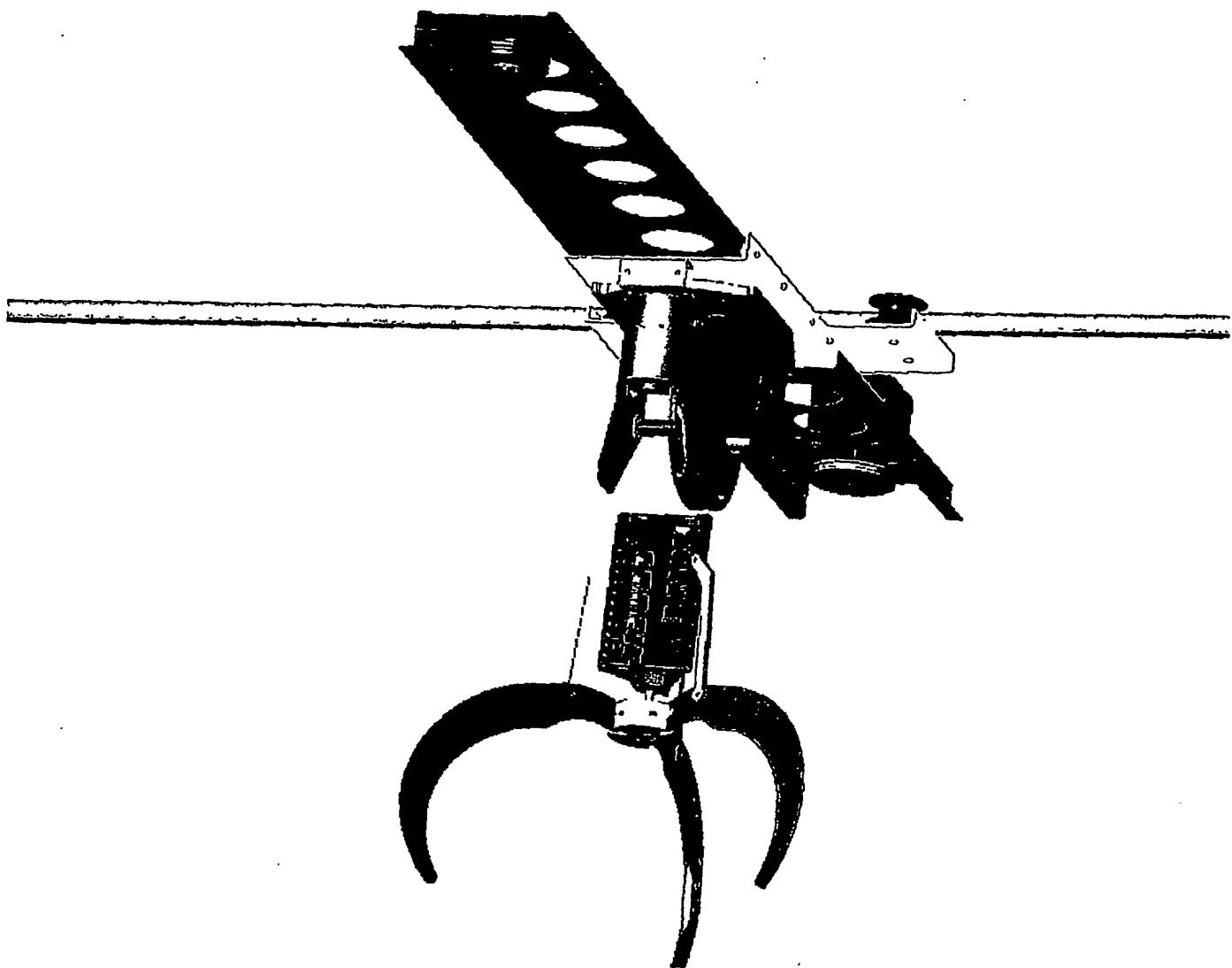


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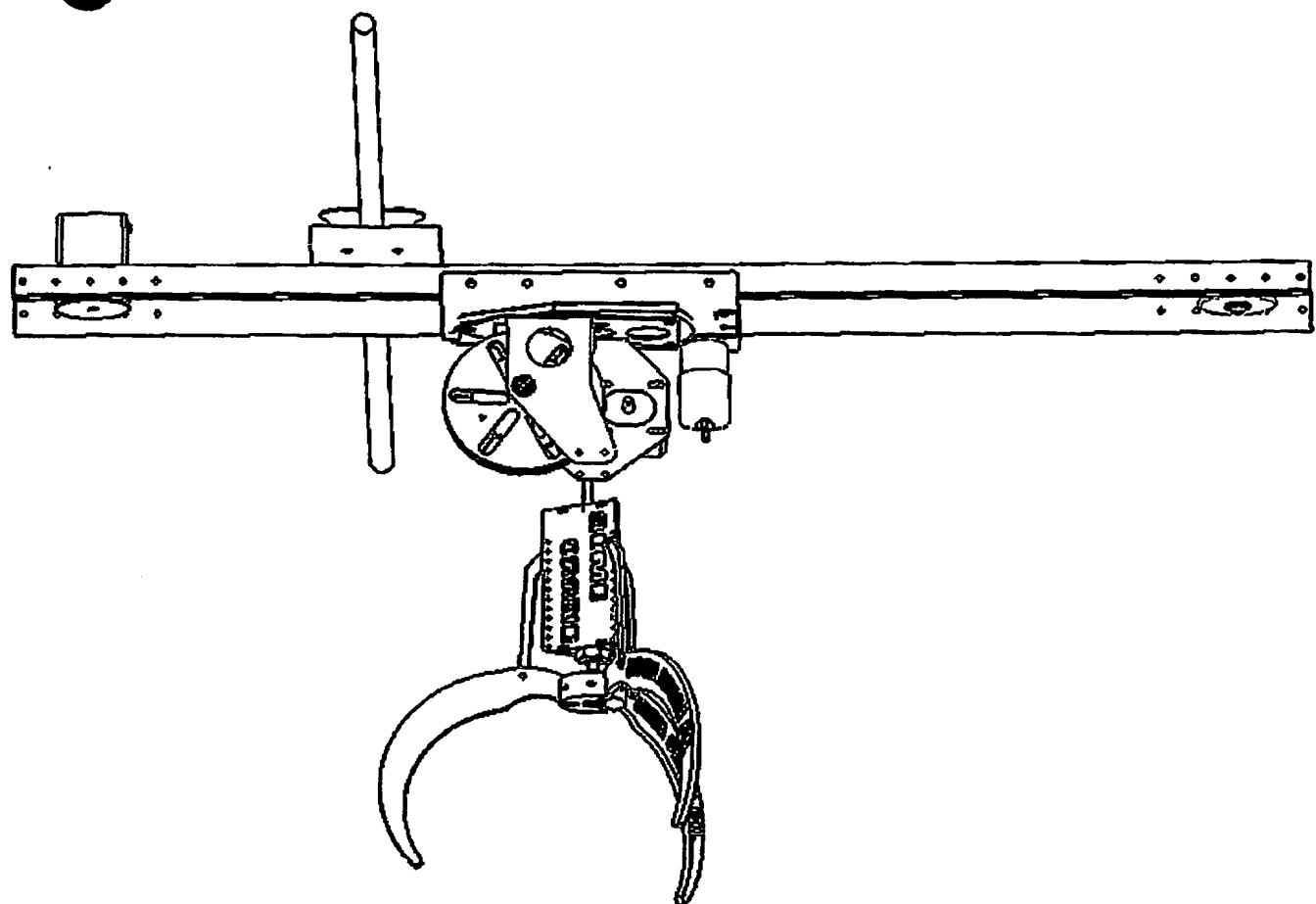
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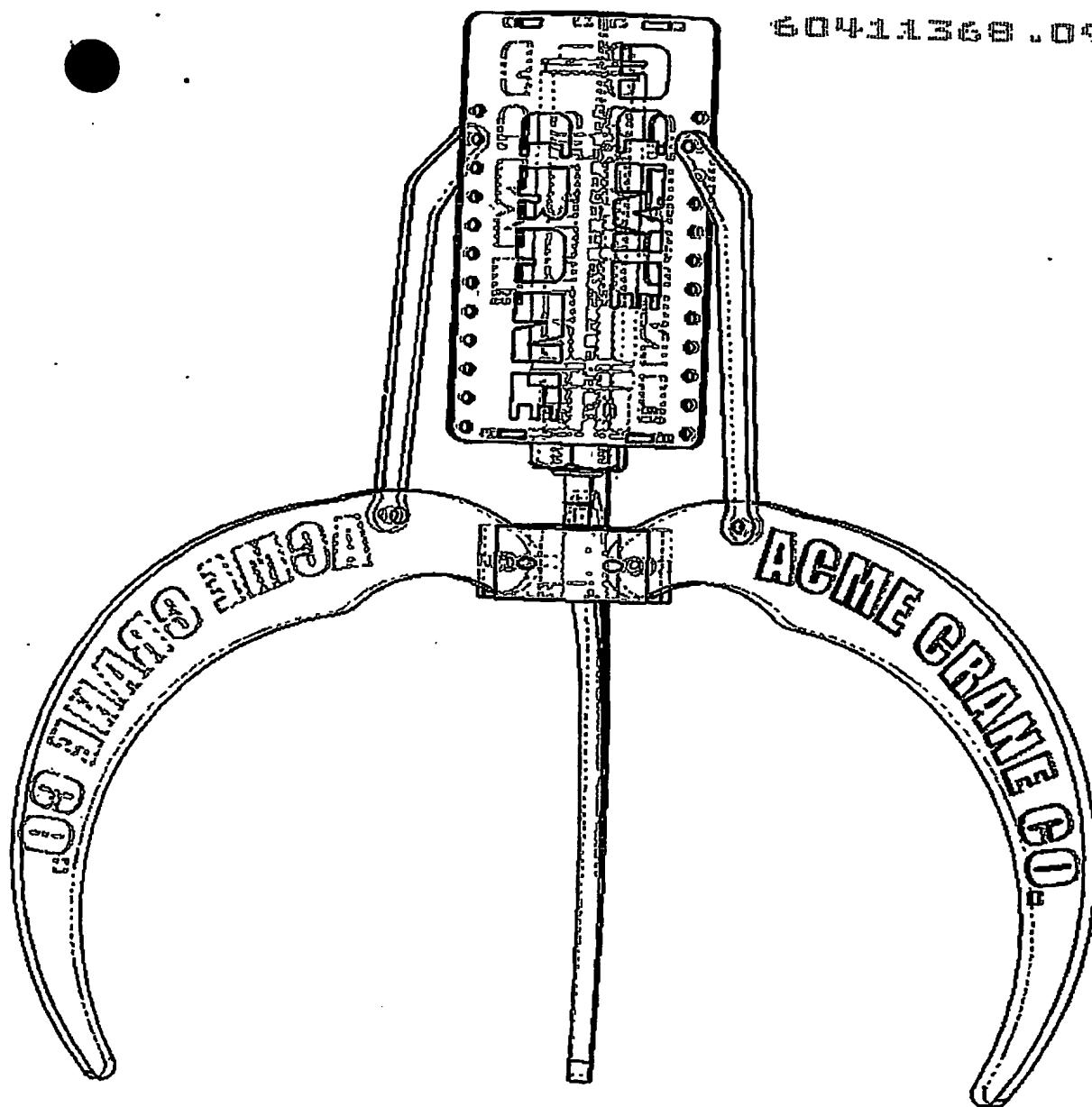
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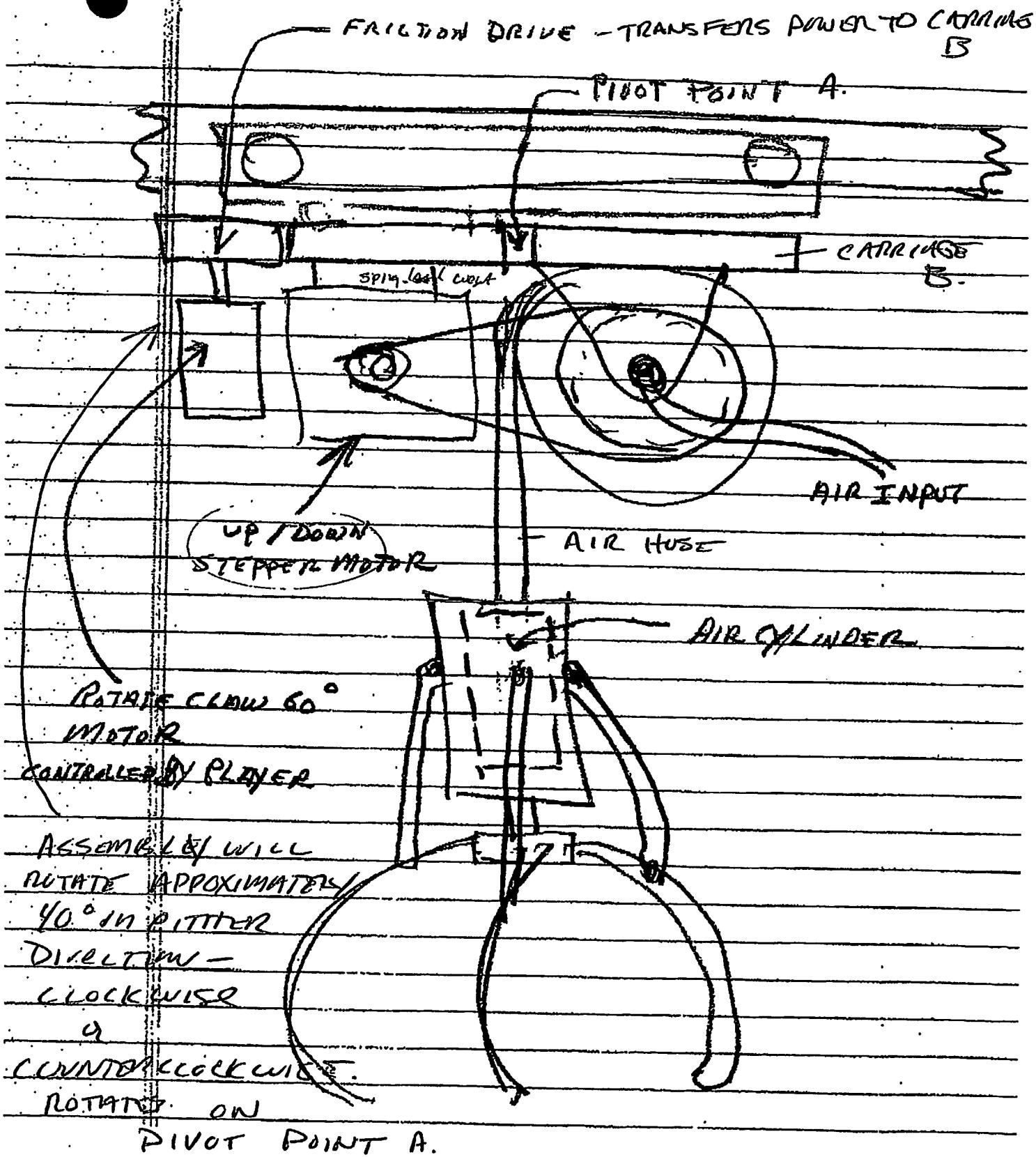


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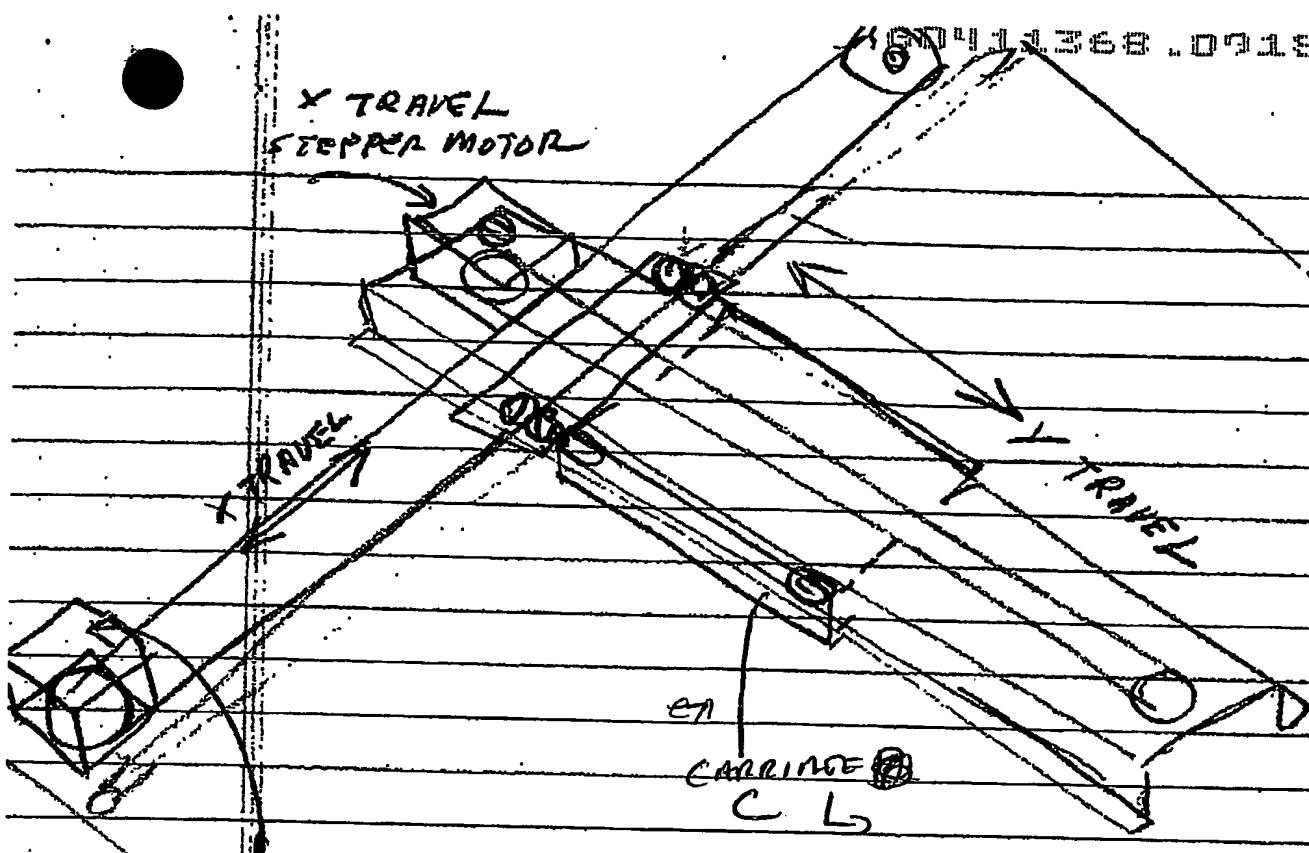


(18) /20



(19) + 20

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STEPPER MOTOR X
TRAVEL

CARRIAGE B IS
ATTACHED TO CARRIAGE
C

20/20

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